### **September 2023 - Project Initiation & Data Collection**

* Week 1:
  + Define clear objectives.
  + Initial stakeholder meeting.
* Week 2-3:
  + Identify and start gathering required data sources.
* Week 4:
  + Begin initial data cleaning and preprocessing.

### **October 2023 - Data Preprocessing & EDA**

* Week 1-2:
  + Complete any remaining data collection.
  + Continue with data cleaning and preprocessing.
* Week 3-4:
  + Start Exploratory Data Analysis (EDA).
  + Descriptive statistics and visualization.

### **November 2023 - Machine Learning Phase 1**

* Week 1-2:
  + Initial model choice and data splitting.
  + Begin model training.
* Week 3-4:
  + Collect all the trained and tested data for each bus route
  + Combine the plots for the website

### **December 2023 - Machine Learning Phase 2**

* Week 1:
  + Gather all the plots and deploy them to website
  + Write what we have been doing so far
* Week 2:
  + Buffer
  + Buffer

### **January 2024 - Deep Learning**

* Week 3:
  + Start data preparation for vehicle classification.
  + Choose and set up deep learning architecture.
* Week 4:
  + Train the deep learning model.
  + Continue with machine learning evaluations, refining and iterating based on the results.

### **February 2024 - Deployment & Communication**

* Week 1:
  + Finalize the DL model
  + Begin drafting documentation.
* Week 2-3:
  + Deployment phase: Start with a beta release or internal testing.
  + Work on the script for explanations.
* Week 4:
  + Finalize the deployment.
  + Reiterate the feedback loop, ensuring everything is set up to gather and implement feedback.

### **March 1st-14th, 2024 - Project Closure & Review**

* Week 1:
  + Address any urgent feedback from the deployment.
  + Prepare final presentations and reports.
* Week 2 (up to 15th):
  + Presentation to stakeholders.
  + Team acknowledgment.
  + Review and retrospection.
  + Project closure.

### **April 5th-6th, 2024 - EOH**